



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200  
Fax 613 632-5246

# U/R

**D5795-5**  
**Job Sheet 207619**



**POSITIVE RECALL**

EFFECTIVE 2/27/20 AUTH SM  
RELEASED \_\_\_\_\_ DATE \_\_\_\_\_



Part No: D5795-5

Job Qty: 6 pcs

Part Name: Fwd Rim



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 2/28/20

Job Tracking No:

Due Date: 2/13/20

Created By: Jennifer Renwick

Type: Stock

Description:

Note: URF 20-522 DWG 5795 REV.A IPP REV:A NEW ISSUE 20.31.01 JV VERF:DD

Ship Via:

## Bill of Materials

## Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
100	Large Fab - Basket - 1	8 pcs	2/13/20		0.00	1.50	Large Fab - 1		
							Large Fab - 10		
							Large Fab - 2		
							Large Fab - 3		
							Large Fab - 4		
							Large Fab - 5		
							Large Fab - 6		
							Large Fab - 7		
							Large Fab - 8		
							Large Fab - 9		
							Large Fab - 11 (Various)		
							Large Fab - 12		
110	QC 5	6 pcs	2/13/20		0.00	0.00	QC 5 - 10		
							QC 5 - 12		
							QC 5 - 17		
							QC 5 - 18		
							QC 5 - 19		
							QC 5 - 22		
							QC 5 - 24		
							QC 5 - 3		
							QC 5 - 43		
							QC 5 - 48		
							QC 5 - 51		
							QC 5 - 58		
							QC 5 - 68		
							QC 5 - 9		
							QC 5 - 50		
							QC 5 - 30		
							QC 5 - 40		
							QC 5 - 61		
							QC 5 - 81		



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
CANADA  
TEL : 1 613 632-5200  
Email: sales@dartaero.com  
www.dartaerospace.com

Container No: S259793



Part: D5795-5

Job No: 207619

Serial No/Batch: S259793

Revision: REV.A

Inspector:

Exp Date:

Instructions:

Date: 03/02/20

BAS  
40  
2-09

MAR 02 2020

120 Packaging 3-1 - Stock - B4B 6 pcs

2/13/20

0.00 0.00

Packaging 3 - 1 - B4B

Packaging 3 - 2 - B4B

Packaging 3 - 3 - B4B

Packaging 3 - 4 - B4B

Packaging 3 - 5 - B4B

Packaging 3 - 6 - B4B

Packaging 3 - 7 - B4B

Packaging 3 - 8 - B4B

Packaging 3 - 9 - B4B

Packaging 3 - 10 - B4B

Packaging 3 - 11 - B4B

Packaging 3 - 12 - B4B

Packaging 3 - 13 - B4B

Packaging 3 - 14 - B4B

Packaging 3 - 15 - B4B

Packaging 3 - 16 - B4B

Packaging 3 - 17 - B4B

Packaging 3 - 18 - B4B

Packaging 3 - 19 - B4B

Packaging 3 - 20 - B4B

Packaging 3 - 21 - B4B

Packaging 3 - 22 - B4B

Packaging 3 - 23 - B4B

Packaging 3 - 24 - B4B

Packaging 3 - 25 - B4B

Packaging 3 - 26 - B4B

Packaging 3 - 27 - B4B

Packaging 3 - 28 - B4B

Packaging 3 - 29 - B4B

Packaging 3 - 30 - B4B

Packaging 3 - 31 - B4B

Packaging 3 - 32 - B4B

Packaging 3 - 33 - B4B

Packaging 3 - 34 - B4B

Packaging 3 - 35 - B4B

Packaging 3 - 36 - B4B

Packaging 3 - 37 - B4B

MFL

130 QC 21 - SA

6 pcs

2/13/20

0.00 0.00

QC 21 - SA - 21

QC 21 - SA - 70

QC 21 - SA - 53

QA

QC

RSC

MAR 02 2020

Part Op 100 - 1- Cut and drill rib as per dwg 2- Deburr

Descriptions: 110 - QC5- Inspect part completeness to step on W/O

120 - Identify as per dwg & Stock Location: MFL 004

130 - QC21- Final Inspection - Work Order Release

## Job BOM

Part / Item	Component Name	Quantity	Operation	Container
M4130NTS0.750W.035	4130 Square Tube 0.750 X 0.035W	28.6746 ft (4.7791 ea)	100-Large Fab - Basket - 1	3250 794

## Job Allocations

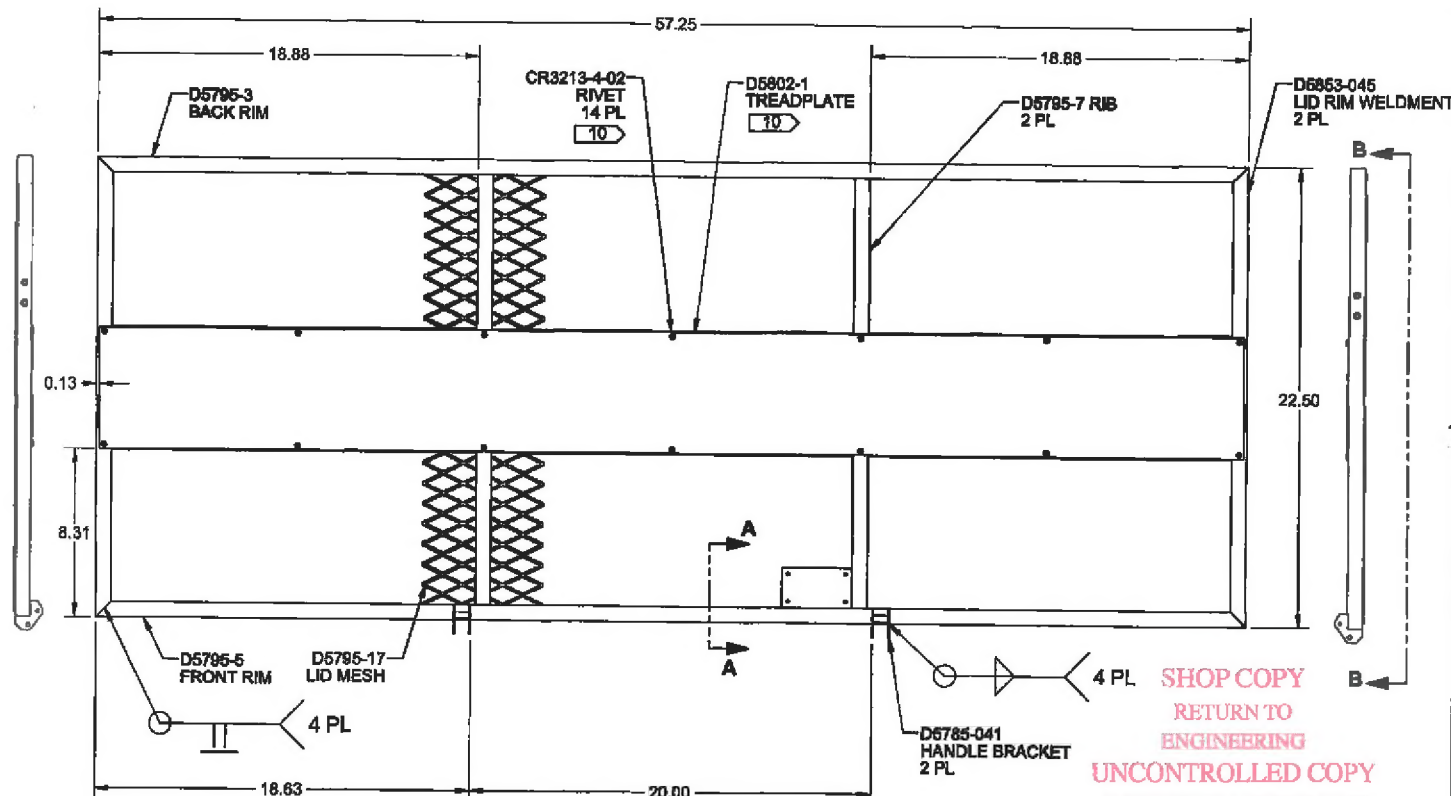
Operation	Component Part	Required	Inventory	Allocated
100-Large Fab - Basket - 1	M4130NTS0.750W.035	29	481	0

## Part Specifications

Specifications could not be found.



QTY -041	P/N	DESCRIPTION
X	D5795-041	SHORT LID ASSY
2	D5785-041	HANDLE BRACKET
1	D5795-3	BACK RIM
1	D5785-5	FRONT RIM
2	D5785-7	RIB
2	D5795-11	STRINGER
4	D5795-13	STRINGER
1	D5795-15	PLACARD BRACKET
1	D5795-17	LID MESH
1	D5802-1	TREADPLATE
2	D5853-045	LID RIM WELDMENT
14	CR3213-4-02	RIVET



**D5795-041 SHORT LID ASSY**  
(DERIVED FROM AERO DESIGN P/N 77612-01)  
(MESH SHOWN LOCALLY FOR CLARITY)

**NOTES:**

- 1) MATERIAL: N/A
- 2) FINISH: POWDER COAT "WHITE" (4.3.5.1) PER DART QSI 005 4.3.
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: IDENTIFY PER DART QSI 044
- 7) WEIGHT: 14.14 lbs
- 8) WELD PER DART QSI 004. IT IS PERMISSIBLE TO BUFF OR GRIND TO CLEAN UP WELDS
- 9) DRILL #30 (Ø0.129) VENT HOLES AS REQUIRED. FILL ALL EXPOSED VENT HOLES WITH ROSETTE WELD PRIOR TO FINISH.
- 10) INSTALL TREADPLATE AFTER FINISH. TRANSFER MARK AND DRILL HOLES Ø0.129 +0.003 / -0.000 FROM TREADPLATE TO LID. FAY SEAL TO SURFACES BETWEEN LID AND TREADPLATE WITH RTV SILICONE. SECURE TREADPLATE WITH RIVETS.
- 11) WELD EVERY MESH INTERSECTION ALONG RIM.
- 12) FOR EACH RIB, WELD FIRST 5 MESH INTERSECTIONS DOWN EACH END, THEN EVERY 2ND MESH INTERSECTION MINIMUM.
- 13) FOR EACH STRINGER, WELD EVERY 2ND MESH INTERSECTION MINIMUM.
- 14) ALIGN STRINGERS TO TOP OF LID.
- 15) LOCATE D5795-15 PLACARD BRACKET FLUSH WITH BOTTOM OF LID. TRIM MESH TO CLEAR BRACKET LEAVING 0.25 OVERLAP. WELD MESH TO BRACKET.

SHOP COPY  
RETURN TO  
ENGINEERING  
UNCONTROLLED COPY  
SUBJECT TO AMENDMENT  
WITHOUT NOTICE  
WORK ORDER

NO UNDER REVIEW 207619

URF 2020-522 20.02.14 (NO)

**RELEASED**

2020 FEB 18 NP  
E CN 2020-521

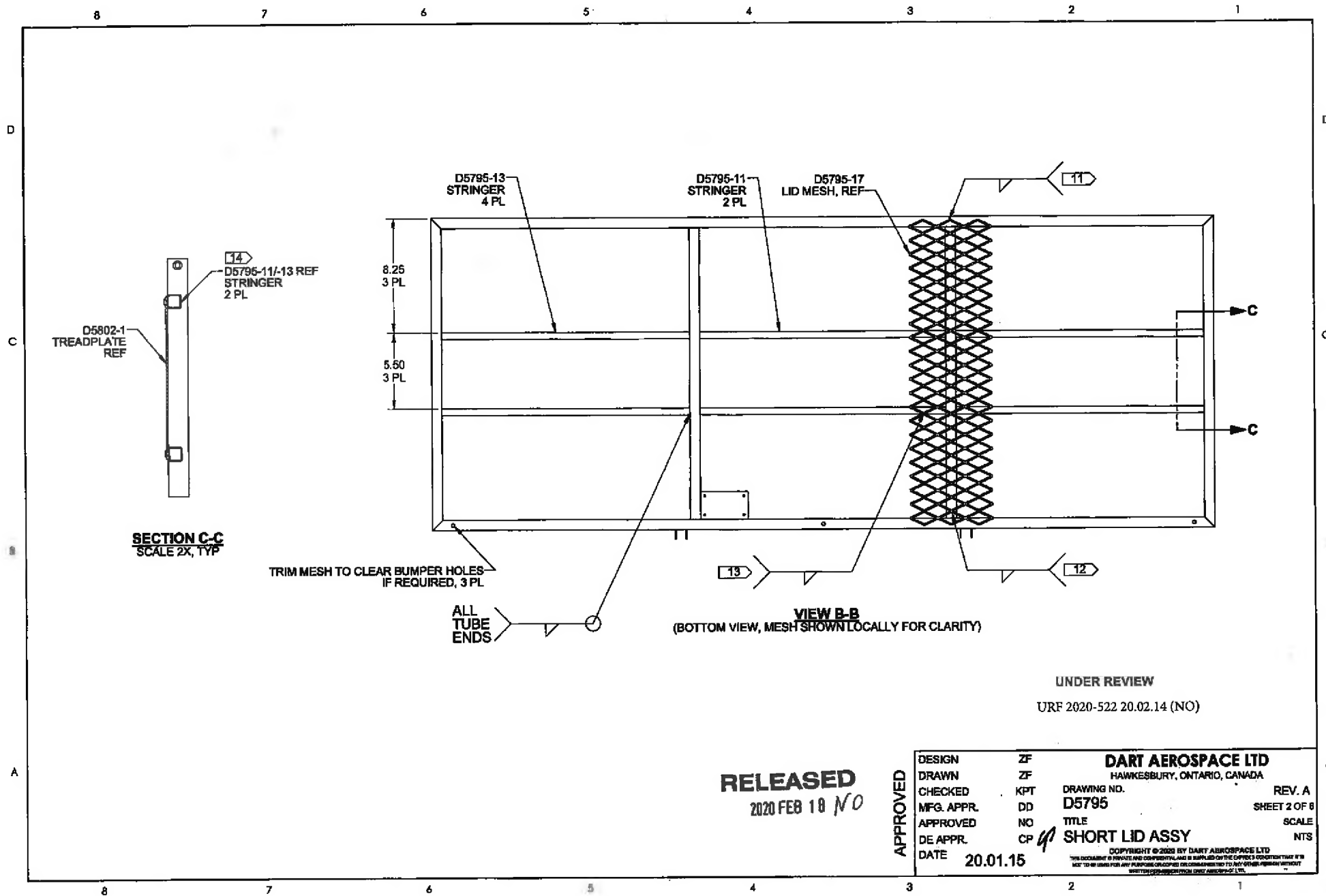
APPROVED

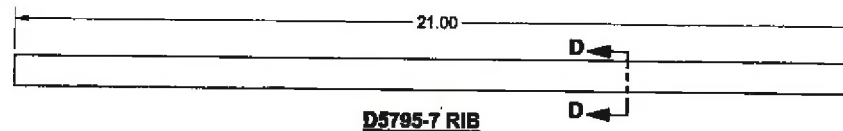
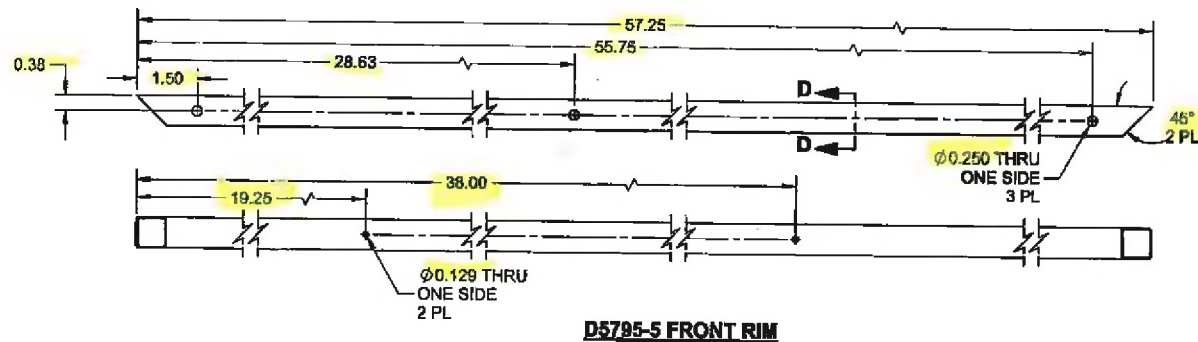
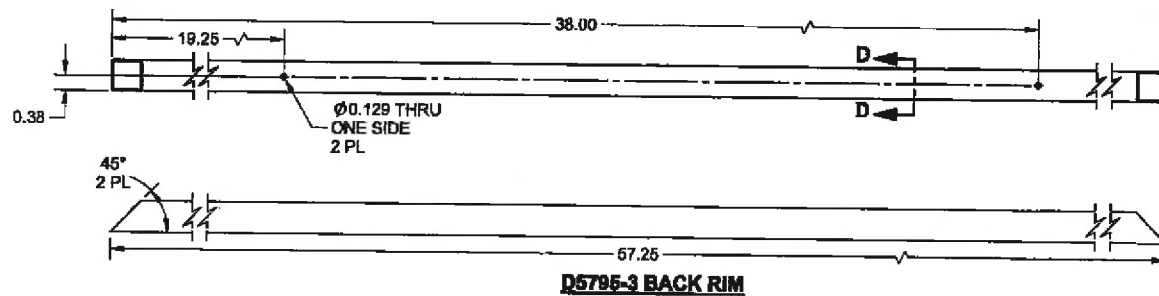
REV.	DESCRIPTION	DATE
A	NEW ISSUE	20.01.15
DESIGN	ZF	
DRAWN	ZF	
CHECKED	KPT	
MFG. APPR.	DD	
APPROVED	NO	
DE APPR.	CP	
DATE	20.01.15	

**DART AEROSPACE LTD**  
HAWKESBURY, ONTARIO, CANADA

DRAWING NO. **D5795**  
TITLE **SHORT LID ASSY**  
REV. A  
SHEET 1 OF 8  
SCALE  
NTS

COPYRIGHT © 2020 BY DART AEROSPACE LTD  
THIS DOCUMENT IS PROPRIETARY AND CONFIDENTIAL. IT IS TO BE USED ONLY FOR THE PURPOSES AND IN THE MANNER SPECIFIED HEREIN. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF DART AEROSPACE LTD.





# NOTES:

- 1) MATERIAL: AISI 4130N STEEL SQUARE TUBING, 3/4 X 0.035 WALL  
PER MIL-T-8738 OR AMS 6371/6360/6361/6362/6373/6374  
REF DART SPEC M4130N-TS0.750W.035
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: -3/-5: 1.55 lbs  
-7: 0.58 lbs

**RELEASED**

2020 FEB 18 *ND*

APPROVED

DESIGN ZF  
DRAWN ZF  
CHECKED KPT  
MFG. APPR. DD  
APPROVED NO  
DE APPR. CP  
DATE 20.01.15

UNDER REVIEW

URF 2020-522 20.02.14 (NO)

**DART AEROSPACE LTD**  
HAWKESBURY, ONTARIO, CANADA

DRAWING NO.

**D5795**

TITLE

**SHORT LID ASSY**

REV. A

SHEET 3 OF 8

SCALE

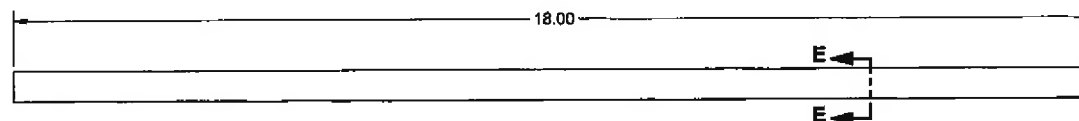
NTB

COPYRIGHT © 2020 BY DART AEROSPACE LTD  
ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT PERMISSION FROM DART AEROSPACE LTD.

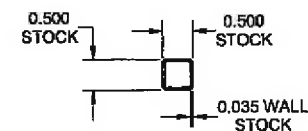
8 7 6 5 4 3 2 1

D

D



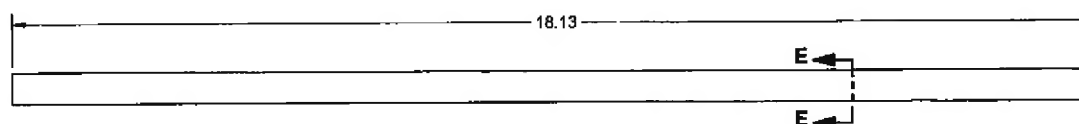
**D5795-11 STRINGER**



**SECTION E-E**

C

C



**D5795-13 STRINGER**

B

B

UNDER REVIEW

URF 2020-522 20.02.14 (NO)

A

A

**NOTES:**

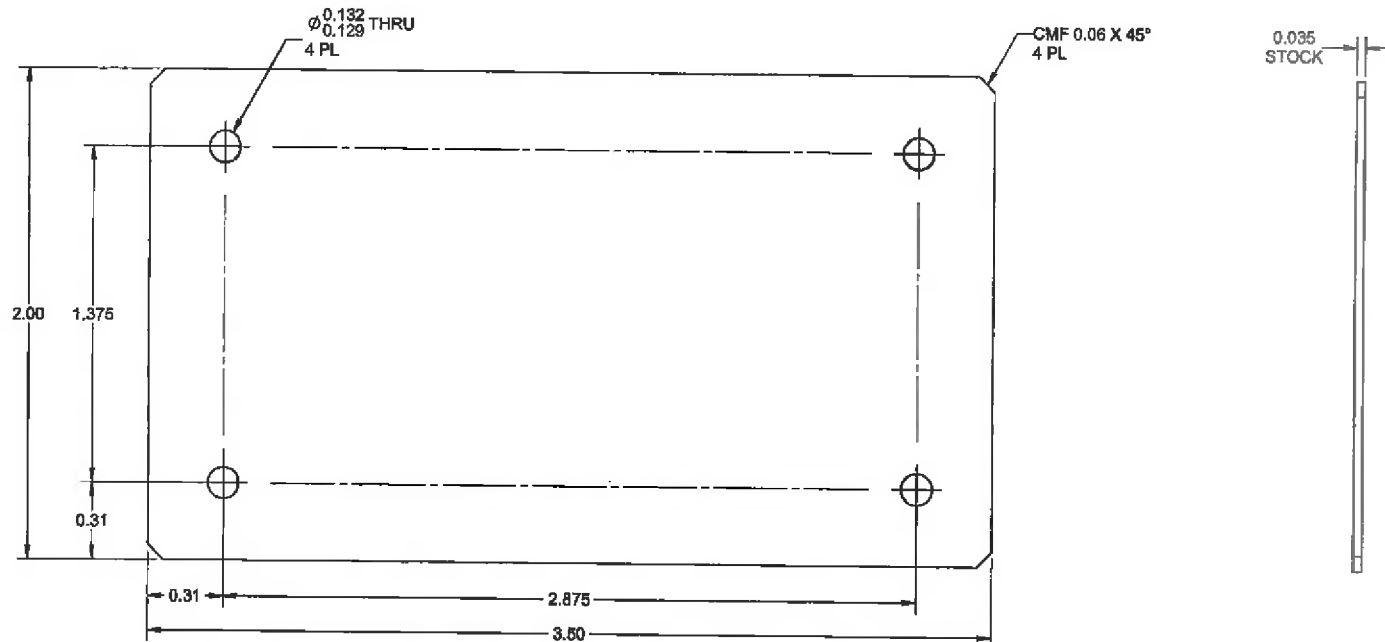
- 1) MATERIAL: AISI 4130N STEEL SQUARE TUBING, 1/2 X 0.035 WALL  
PER MIL-T-8738 OR AMS 6371/6360/6361/6362/6373/6374  
REF DART SPEC M4130N-TS0.500W.035
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: -11/-13: 0.32 lbs

**RELEASED**  
2020 FEB 18 *ND*

APPROVED

DESIGN	ZF	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	DRAWING NO. <b>D5795</b>	REV. A
DRAWN	ZF			
CHECKED	KPT			
MFG. APPR.	DD			
APPROVED	NO			
DE APPR.	CP	TITLE <b>SHORT LID ASSY</b>	SCALE	NTS
DATE	20.01.15	<small>COPYRIGHT © 2020 BY DART AEROSPACE LTD THIS DOCUMENT REPRESENTS DART AEROSPACE LTD'S SUPPLY OR PROPOSED SUPPLY OF A PRODUCT OR SERVICE TO A CUSTOMER. IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT THE WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>		

8 7 6 5 4 3 2 1



**D5795-15 PLACARD BRACKET**  
(DERIVED FROM AERO DESIGN P/N 36204-10)

UNDER REVIEW

URF 2020-522 20.02.14 (NO)

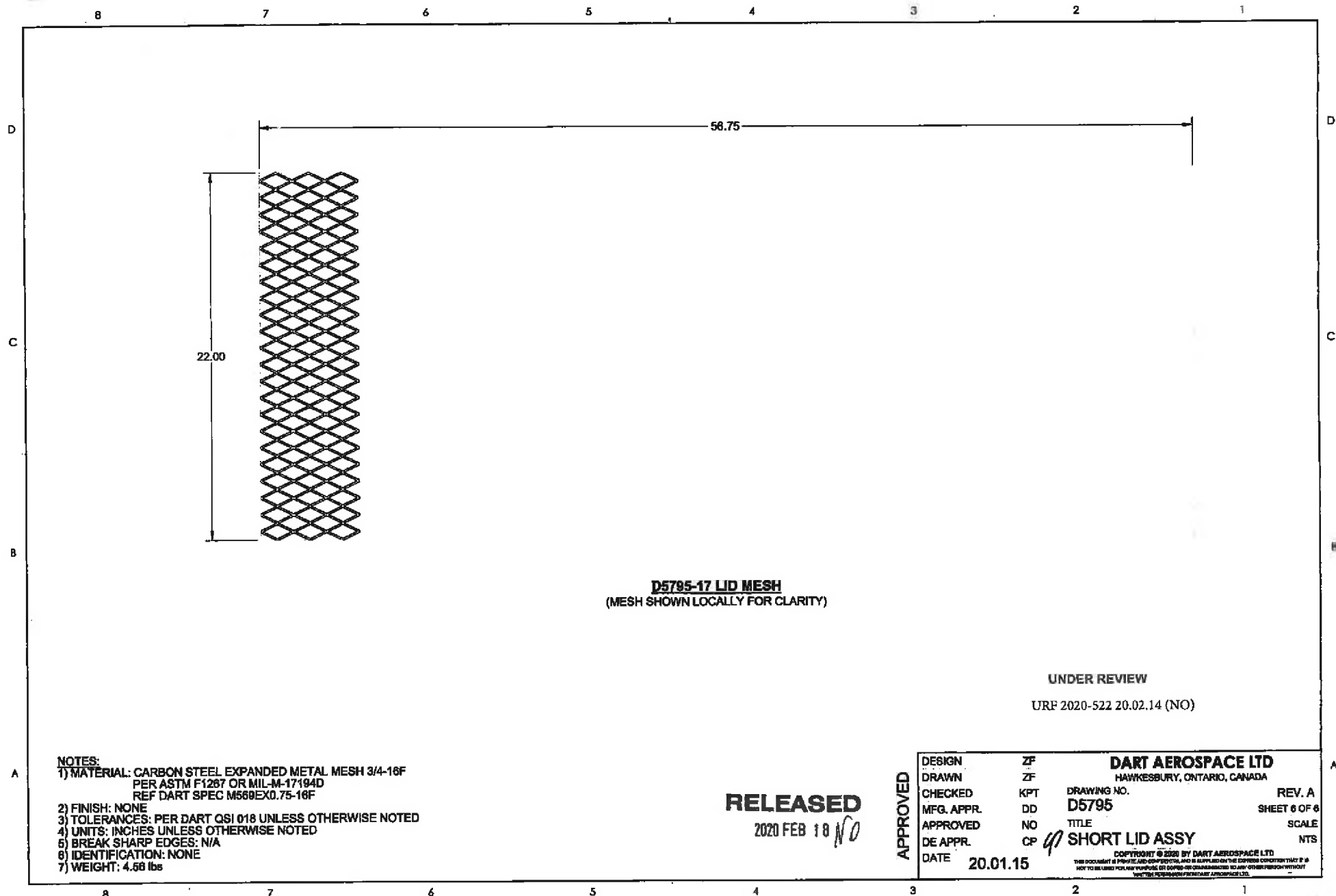
**NOTES:**

- 1) MATERIAL: AISI 1010/1025 STEEL SHEET, COLD ROLLED, #20GA (0.035 THICK)  
PER ASTM A36/A366/A1008 OR CSA G40-21 38W/44W/50W/60W/70W  
REF DART SPEC M1010-S20GA
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: 0.07 lbs

**RELEASED**  
20 FEB 18 *No*

APPROVED

DESIGN	ZF	<b>DART AEROSPACE LTD</b>	
DRAWN	ZF	HAWKESBURY, ONTARIO, CANADA	
CHECKED	KPT	DRAWING NO.	REV. A
MFG. APPR.	DD	<b>D5795</b>	SHEET 5 OF 8
APPROVED	NO	TITLE	SCALE
DE APPR.	CP	<b>SHORT LID ASSY</b>	NTS
DATE	20.01.15	COPYRIGHT © 2020 BY DART AEROSPACE LTD	
THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL, AND IS SUPPLIED ON THE CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR REPRODUCED IN ANY FORM OR BY ANY MEANS WITHOUT THE WRITTEN PERMISSION OF DART AEROSPACE LTD.			









Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# PURCHASE ORDER POHB045594



**Supplier:** FAC001-VU  
Factory Steel  
14020 Oakland Ave.  
Detroit, MI 48203 USA  
Phone: 313 883 6300  
Fax: 313 883 4883

**PO No:** POHB045594

**PO Date:** 1/16/20

**Due Date:** 2/4/20

**Purchase Order**

**Revision:**

**Revision Date:**

**Ship-To Contact:** Phone:

**Ship To:** 1270 Aberdeen Street  
Hawkesbury  
ON  
K6A 1K7 Canada  
Phone: 613-632-5200

**Via:** Ground

**Pynt Terms:** Net 30

**Freight Terms:**

**Special Comments:**

JAN 16 2020

Items													
Line Item	Job	Part	Drawing	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1		M4130NTS0.750W.035			4130 Square Tube 0.750 X 0.035W : MATERIAL: AISI 4130N STEEL SQUARE TUBING PER ONE OF THE FOLLOWING SPEC'S: MIL-T-6736, AMS 6371, 6390, 6361, 6362, 6373 OR 6374	Firmed -		2/4/20	600 ft	0 ft	600 ft	\$7.25/ft	\$4,350.00
2		M4130NTS1.000W.065			4130 Square Tube 1.000" X 1.000" X 0.065"W : MATERIAL: AISI 4130N STEEL SQUARE TUBING PER ONE OF THE FOLLOWING SPEC'S: MIL-T-6736, AMS 6371, 6390, 6361, 6362, 6373 OR 6374	Firmed -		2/4/20	160 ft	0 ft	160 ft	\$11.70/ft	\$1,872.00
												Grand Total:	\$6,222.00

Plex 1/16/20 11:38 AM Dart.Lavole.Chantal



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

**PURCHASE ORDER**  
**POHB045594**



**Order Notes**

**Procurement Quality Clauses**

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable). No Raw Metals from China or Soviet Bloc Countries. (DFARS)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program.

A049 supplier awareness.

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dart.aerospace.ca](http://www.dart.aerospace.ca) for further explanation.

Plex 1/16/20 11:38 AM Dart.Lavoie.Chantal

# PACKING LIST

No. 67371

PG 1 OF 1

FACTORY STEEL & METAL SUPPLY 14020 OAKLAND AVENUE DETROIT, MI 48203  (313)883-6300 PHONE (313)883-4883 FAX		CUSTOMER PO POHB045594 CUSTOMER JOB		BUYER CHANTEL LAVOIE Tel (613) 632-3336 Fax (613) 632-4443		SHIP DATE 01/21/2020 SHIP VIA ****TRUCK****	
		SALES ORDER 60306		ORDER DATE 01/16/2020		RESALE # 59-2958719	
SOLD TO DART AEROSPACE 1270 ABERDEEN STREET HAWKESBURY, ON K6A 1K7		SHIP TO DART AEROSPACE 1270 ABERDEEN STREET HAWKESBURY, ON K6A 1K7		SHIP INST CALL WHEN READY PRO#		CARRIER TRUCK BLIND Y/N N	
				TERMS NET 30 DAYS		FOB DETROIT	

LINE	QUANTITY	DESCRIPTION	WIDTH	LENGTH	WEIGHT		
1	609.917 FT	4130N CD SMLSS SQ TUBE 3/4" X .035W  Tag Mill Ref # Heat 153513 023679 616506	Pcs Length 26 20' /24' RL	20' /24' RL  Feet 609.917	207.554  Weight 207.554		
2	171.333 FT	4130N CD SMLSS SQ TUBE 1" X .065W  Tag Mill Ref # Heat 153514 072143 072067859	Pcs Length 7 22' /23' RL	22' /23' RL  Feet 171.333	141.606  Weight 141.606		
3	1 PCS	PACKING CHARGES  MTRS (CIRCLE) FAX SHIPMENT INVOICE ALL - DATE: _____ INITIAL: _____					

TOTAL WT 349 LBS											
RECEIVED BY - SIGNATURE				RECEIVED BY - PRINTED NAME				DATE RECEIVED			

LIVE 1  
M4130NTS0.750W.035

S250794  
616506



DESIGN GH	DRAWN BY GH	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED GH	APPROVED GH	DRAWING NO. M4130N-TS	REV. A SHEET 1 OF 1
DATE 05.02.09		TITLE 4130N SQUARE TUBING	SCALE NTS
A	05.02.09	NEW ISSUE	

PURCHASE MATERIAL: AISI4130N STEEL SQUARE TUBING PER ONE OF  
THE FOLLOWING SPEC'S: MIL-T-6736, AMS 6371,  
6360, 6361, 6362, 6373 OR 6374

DAS  
82  
9-86

PART NUMBER: M4130N-TS | A.AAA | W | .TTT |

WHERE A.AAA = WIDTH IN INCHES  
TTT = WALL THICKNESS IN INCHES

EXAMPLE: 0.50" X 0.035" WALL = M4130N-TS0.500W.035

05.02.09



1



**PLYMOUTH TUBE CO.**

1200 East 12th Street, Strevor, Illinois 61583  
Phone: (815) 673-1815 Fax: (815) 672-7333

TRUST YOUR SOURCE - ACCEPT NO SUBSTITUTION



**PRODUCT CERTIFICATION**

SALES ORDER - LINE / RLS

175628 - 1 / 3

SHIP TO

Factory Steel & Metal Supply C  
14020 Oakland Avenue  
Detroit, MI 48203  
USA

WORK ORDER 023679

PCS/HEAT 0

HEAT NUMBER 616506

MELT SOURCE Bender Steel & Tube-Germany

CUSTOMER P.O. 3887	CUSTOMER PART SQ-N34035	QUANTITY	LADING NO	CERT ID / REV /	CERT DATE								
<b>PART DESCRIPTION</b> SHSQ0750035J300 ***** Square OD ***** Side1: 0.7500 Max:0.7600 Min:0.7400 Side2: 0.7500 Max:0.7600 Min:0.7400 Wall: 0.0350 Max:0.0380 Min:0.0320 Length: 10.00/28.00 Spec: MIL-T 6735B Seamless Aircraft Grade: 4130 Anneal: Cond N													
<b>CERTIFICATION REQUIREMENTS</b> FAR BAA (FAR 52.225-1 Buy America Act Supplies), DFARS 252.225-7001 Buy America Act & Bal. of Payments Program FAR TAA (FAR 52.225-5 Trade Agreements)(Paragraph 1,3,4,5)This material was Eddy Current tested and conforms to the requirements of ASTM A-450. The Grain size is determined and reported by the raw material supplier in accordance to ASTM E-112. This raw material was magnetic particle inspected by the raw material supplier in accordance to AMS 2640J and/or ASTM E-1444, and rated as Frequency, and Severity to AMS 2301, latest revision. Yield is determined by using the 0.2% offset method. Additional Specifications - AMS-T 6735B, 6360P & 6371L. Material produced in accordance to ASTM A-519-17 and MIL-T 6735B. This material meets Plymouth ProMoly specifications. Jominy results: J(5/16")=45 J(8/16")=38													
<b>Chemical Analysis</b>													
C	Mn	P	S	Si	Al	Cr	Mo	Ni	Pb	Cu	V	Ti	Sn
.310	.55	.011	.002	.230	.036	.97	.18	.12	.001	.16	.002	.002	.010
<b>Physical Properties</b>													
Freq.	Severity	Grain Size											
.020	.015	9											
<b>Mechanical Properties</b>													
<b>TEST</b>	<b>UNITS</b>	<b>#TESTS</b>	<b>HIGH</b>	<b>LOW</b>	<b>AVERAGE</b>	<b>STD-DEV</b>							
Tensile	Psi	6	126660	125480	126066	482							
Yield	Psi	6	120930	119880	120387	374							
Elongation	%	6	21	20	20	1							
Rockwell C	Rc	6	25	25	25	0							
<b>TEST</b>	<b>RESULT</b>												
Decarb/OD	Pass												
Total ID/OD decarb	Pass												

I certify that the results are a true and correct copy of the records prepared and maintained by Plymouth Tube Company, Strevor in compliance with the requirements of the cited specification. Chemistry is as reported by the Steel supplier. This test report cannot be reproduced or distributed except in full without the written permission of Plymouth Tube.

*Janine Derosoff*  
QUALITY ASSURANCE

11



**PLYMOUTH TUBE CO.**

1200 East 12th Street, Streator, Illinois 61351

Phone: (815) 879-1818 Fax: (815) 879-9343

TRUST YOUR SOURCE ACCEPT NO SUBSTITUTIONS



## PRODUCT CERTIFICATION

SALES ORDER - LINE / RLS

175629 - 1 / 0

WORK ORDER 023679

PCS/HEAT 0

HEAT NUMBER 616506

MELT SOURCE Coniteler Steel & Tube-Germany

**SHIP TO**

Factory Steel & Metal Supply C  
14020 Oakland Avenue  
Detroit, MI 48203  
USA

CUSTOMER P.O.	CUSTOMER PART	QUANTITY	LADING NO	CERT ID / REV	CERT DATE	
3887	SQ-N34035			/		
PART DESCRIPTION		SHSQ0750035J300				
Additional Specification(s)						
<u>TEST</u>	<u>UNITS</u>	<u>#TESTS</u>	<u>HIGH</u>	<u>LOW</u>	<u>AVERAGE</u>	<u>STD-DEV</u>
Brinell	Brinell	6	253	253	253	0
<p>This test report data is for the heat Chemistry Stated above.</p> <p>The material in this test report is:</p> <ol style="list-style-type: none"><li>1) Drawn in the USA</li><li>2) Free from Polybrominated Biphenyls (PBB), Polybrominated Diphenyl Ethers (PBDE), and Mercury contamination.</li><li>3) NAFTA compliant.</li></ol> <p>End of Certification</p>						

I certify that the results are a true and correct copy of the records prepared and maintained by Plymouth Tube Company, Streator in compliance with the requirements of the cited specification. Chemistry is as reported by the Steel supplier. This test report cannot be reproduced or distributed except in full without the written permission of Plymouth Tube.

*Janice Derossett*  
Quality Assurance

LIWEI

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M4130NTS 0.750W .035 PO / BATCH NO.: PGHB045594  
 DATE: JAN 27 2020 SA50794

MATERIAL CERT REC'D: YES  
 QUANTITY RECEIVED: 609 FT  
 QUANTITY INSPECTED: 609 FT  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .750W .035  
 THICKNESS RECEIVED: .750W .035  
 SHEET SIZE ORDERED: —  
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> N	
CORROSION	Y <input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> N	MIL-T-6736
CORRECT THICKNESS	<input checked="" type="checkbox"/> N	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> N	666506
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS</u>	SIGNED OFF BY: <u>82</u>		
DATE: <u>JAN 27 2020</u>	DATE: <u>6.30</u>		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

Entered: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. \_\_\_\_\_

Route update only ☐

Job: _____  Part No. _____	<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/>	<b>DEPARTMENT/PROCESS</b>  <div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/>            Machining <input type="checkbox"/>            Large Fab <input type="checkbox"/> </div> <div>           Cross tube <input type="checkbox"/>            Small Fab <input type="checkbox"/>            Finishing <input type="checkbox"/> </div> <div>           Eng. (Non-AW) <input type="checkbox"/>            Prod. Eng. Coord. <input type="checkbox"/>            Rec/Store/Packaging <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/>            Water Jet <input type="checkbox"/>            Supplier <input type="checkbox"/>            Quality <input type="checkbox"/> </div> </div>			
Date : _____	Sequence #: _____	QTY Affected : _____		MRB (QSI042)	
<b>Description Work Order Deviation</b>		<b>Disposition</b>		<b>Completed By</b>	
<b>Root Cause</b>  <div style="display: flex; justify-content: space-between;"> <div>           Operator <input type="checkbox"/>            Manufacturing Process <input type="checkbox"/>            Equip/Tooling <input type="checkbox"/>            Handling/Preservation <input type="checkbox"/>            Material <input type="checkbox"/>            Product Improvement <input type="checkbox"/>            Process Improvement <input type="checkbox"/>            Human Factors <input type="checkbox"/> </div> <div> <input type="checkbox"/> Pressure/Forced  <input type="checkbox"/> Bending  <input type="checkbox"/> Crushing  <input type="checkbox"/> Cracks  <input type="checkbox"/> Crimp/Kink/Ripple/Wave/Twist  <input type="checkbox"/> Marks/Chatter  <input type="checkbox"/> Mislabeled         </div> </div>		<b>FAULT CATEGORY</b>  <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Contamination  <input type="checkbox"/> Misaligned/off center  <input type="checkbox"/> BOM/Route  <input type="checkbox"/> Broken/Damage/Defect  <input type="checkbox"/> Incomplete/Unclear Instructions  <input type="checkbox"/> Drill Holes  <input type="checkbox"/> Fit/Function         </div> <div> <input type="checkbox"/> Power Loss/Surge  <input type="checkbox"/> Folio/Program  <input type="checkbox"/> Grain Direction  <input type="checkbox"/> Weld  <input type="checkbox"/> Wrong Stock Pulled  <input type="checkbox"/> Out of Sequence  <input type="checkbox"/> Off-set/Set-up         </div> <div> <input type="checkbox"/> Positioned Wrong  <input type="checkbox"/> Outside Tolerance  <input type="checkbox"/> Drawing  <input type="checkbox"/> Finish  <input type="checkbox"/> Part Lost/Missing  <input type="checkbox"/> Misread         </div> </div>			
Other/Details:					